

DERWENT-ACC-NO: 1984-187896
DERWENT-WEEK: 198430
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TITLE: Glass fibre treatment compsn. - contains
tetra:ethoxy-silane, acetone,
hydrochloric acid, water and additionally ferric or cupric
chloride

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PATENT-ASSIGNEE: N-W CORRESPONDENCE POLY [NWCO]

PRIORITY-DATA:
1981SU-3340796 (June 4, 1981)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
SU 1057453 A	November 30, 1983	N/A
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
SU 1057453A	N/A	1981SU-3340796
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INT-CL (IPC): C03C017/02
ABSTRACTED-PUB-NO: SU 1057453A

BASIC-ABSTRACT:

The proposed compsn. is used for increasing the mechanical strength of glass fibres. It comprises (in wt. %): tetraethoxy-silane 3-5, acetone or diethylene glycol diethyl ether 10.1-16.8, hydrochloric acid 0.014-0.023, FeCl₃ or CuCl₂ 3-5 and water the remainder. Typically, the degreased glass fibre contg. (wt.%) SiO₂ 84.4, CaO 8.44, Al₂O₃ 5.8, MgO 0.8, B₂O₃ 0.6, is immersed over 10 min. in the prepd. soln., dried over 6 hours and subjected to thermal treatment

at 200 deg. C over 2 hours.

The tensile strength of treated fibre is increased by 17-24 % (32-40 % when compared to previously used compsn. contg. phosphoric acid). Bul.44/30.11.83

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: E11 E17 E37 F06 L01

CPI-CODES: E05-E03; E10-F02C; E10-H01; E31-B03; E35-A; E35-U; F01-H06; L01-F03;